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NSSDC Mass Storage Workshop

July 23-25, 1991

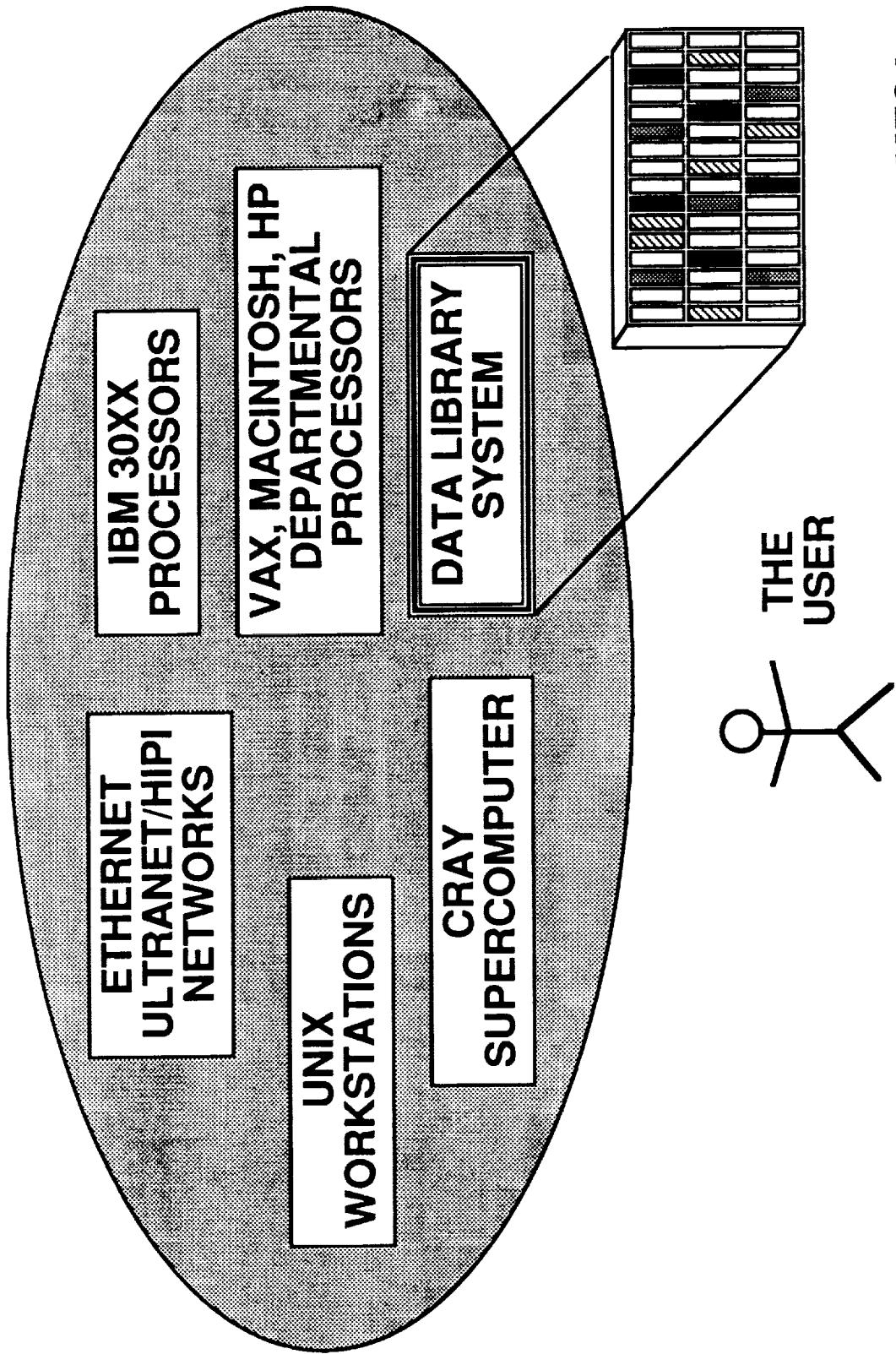
Data Archiving

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Computing Environment



NATIONAL CENTER FOR ATMOSPHERIC RESEARCH (NCAR)

Atmospheric and oceanographic research

Initiator of IEEE Storage Model

Status

- Operational since 1986
- 4,000 users
- 82,000 3480 cartridges 11/90
- ~15 TB, growing at 6 TB/year with Y/MP

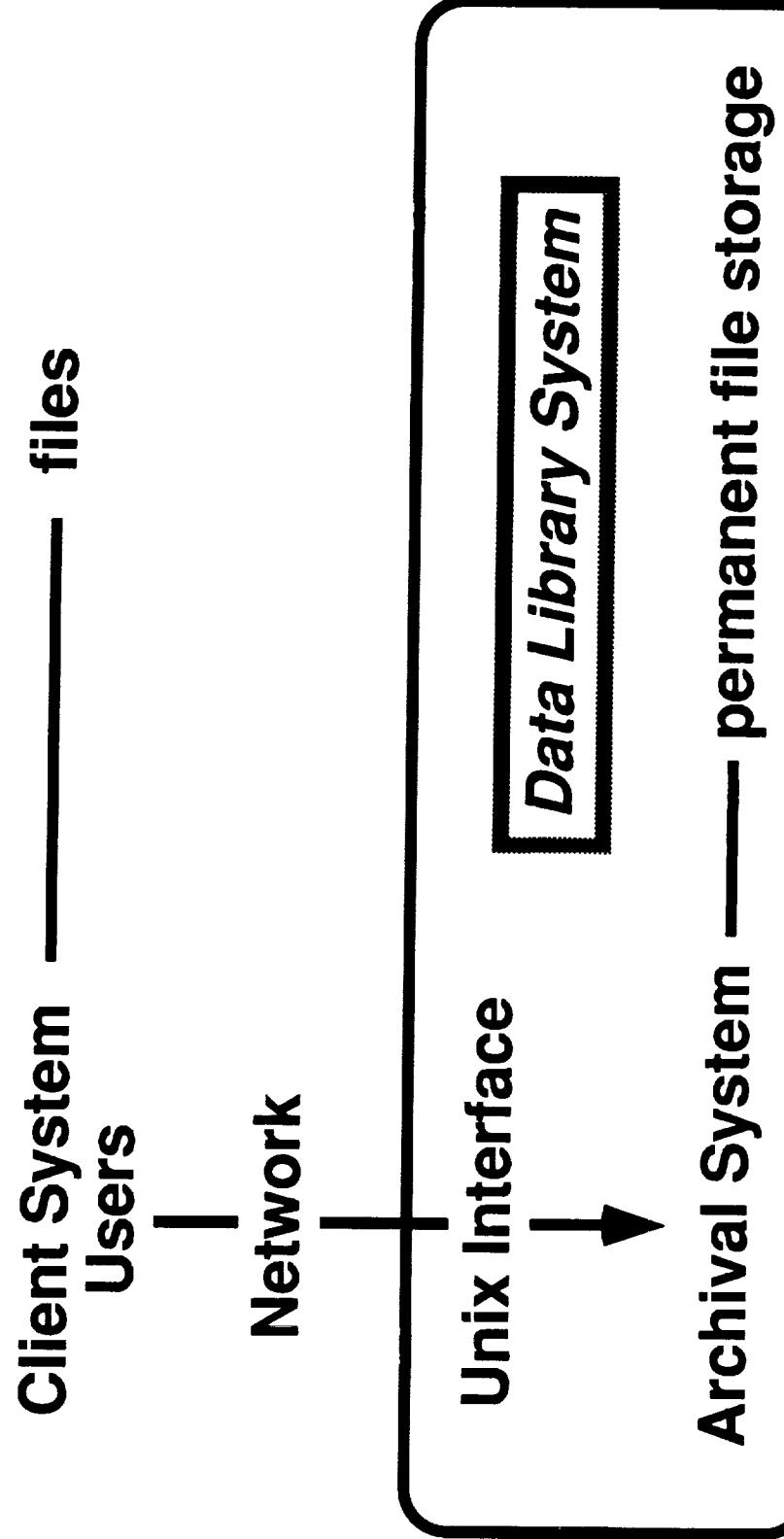
Product Goals

Designed for change

System availability

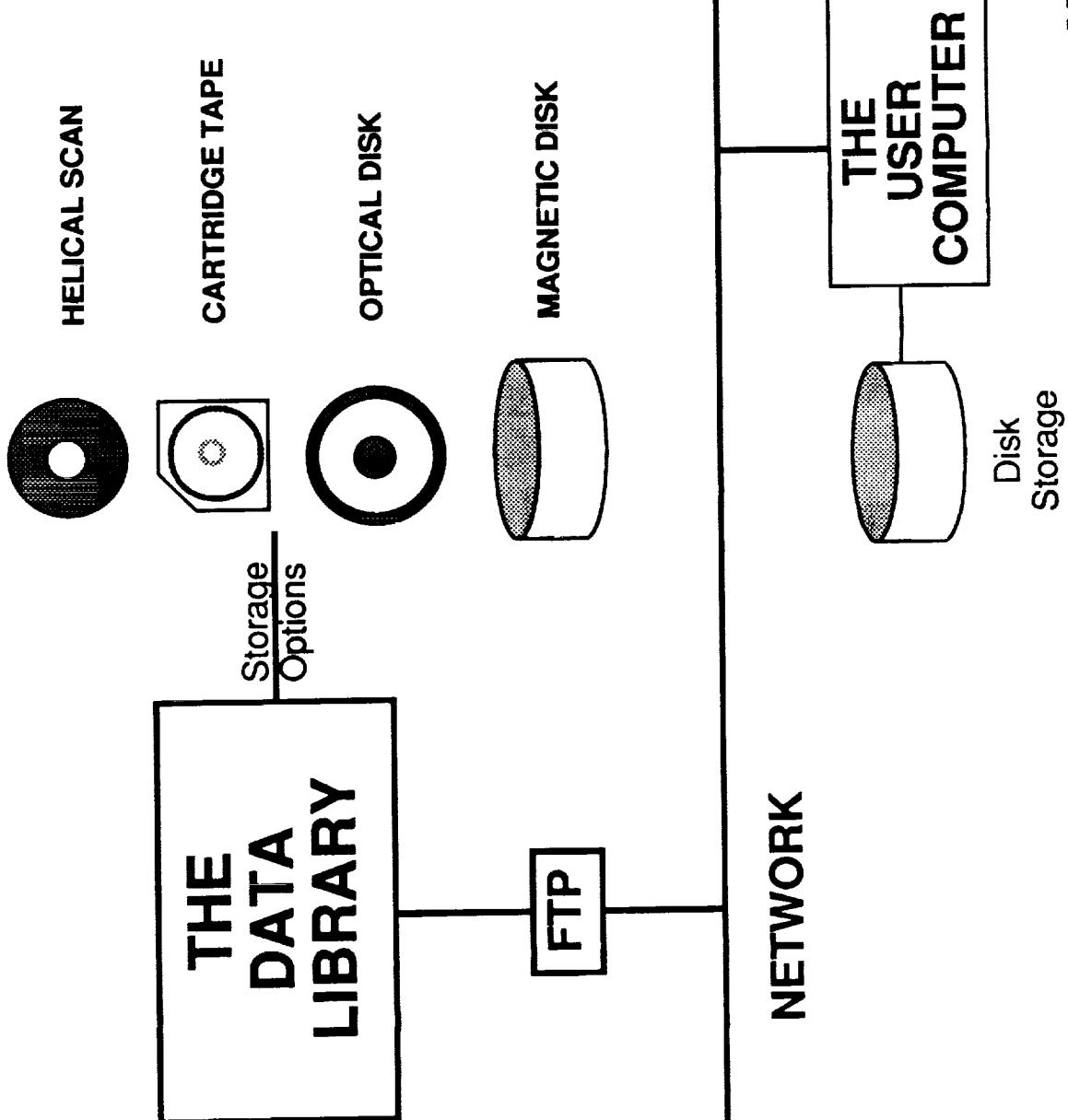
Commercial support

Standard products



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DLS Environment



Client System Commands

FTP Interface

- *GET*
- *PUT*
- *DIR*
- *LS*
- *RENAME*

Other

- *USER ACCESS*
- *IMPORT / EXPORT*

Networks

Protocols

- **FTP, User Access**
- **TCP/IP, NETEX**

Networks

- **Ethernet**
- **Ultronet**
- **HYPERchannel**

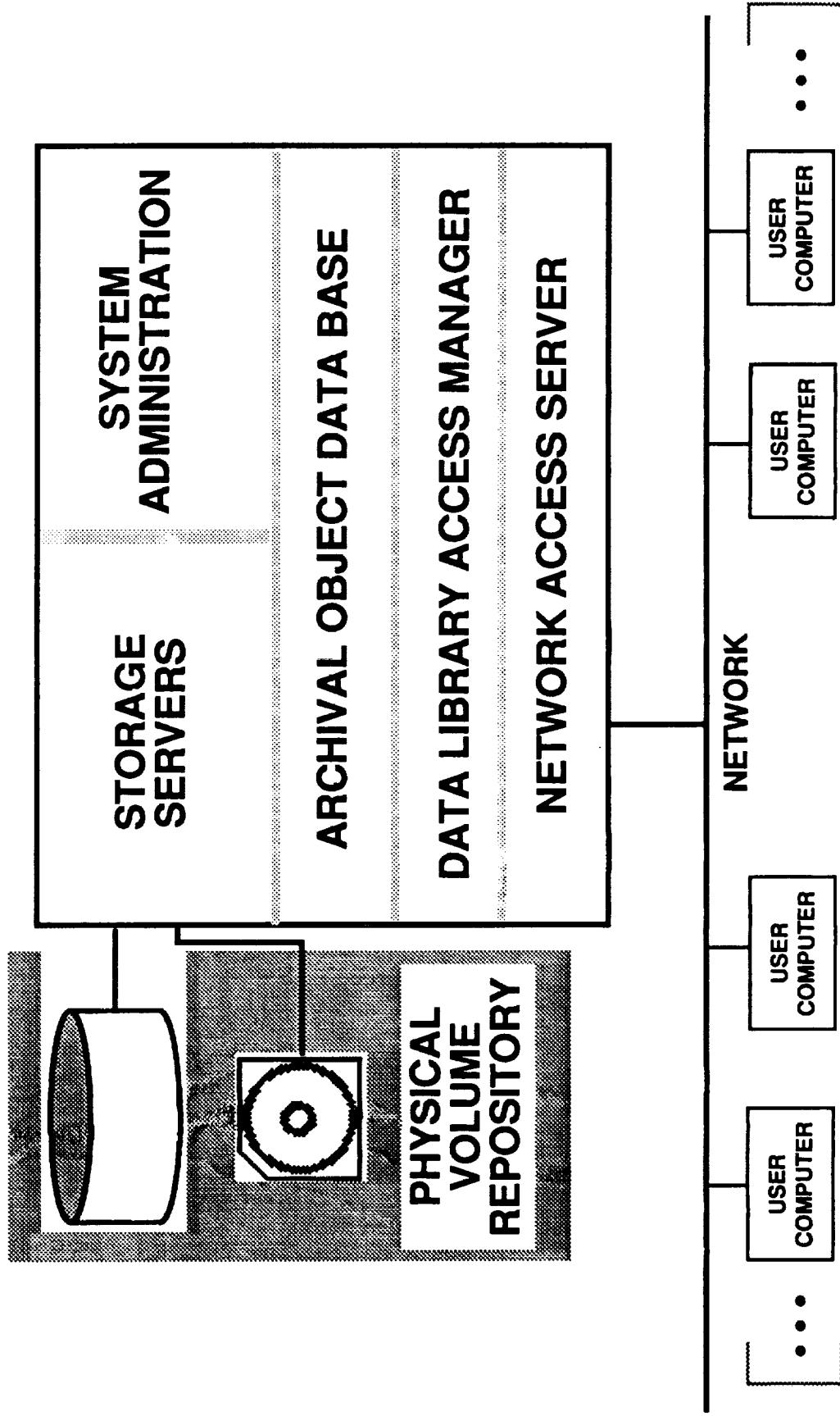
Archival Devices

- **IBM 3480/90 Cartridge Tape**
- **STK 4400 Cartridge Tape Robot**
- **MTC 5400 Automated Tape Library**
- **DataWare Optical Disk**
- **Masstor Helical Scan Tape**

DLS Features

- Modular implementation
- Multiple media support
- Resource accounting
- Security (Client - POSIX, System - MVS)

Data Library System



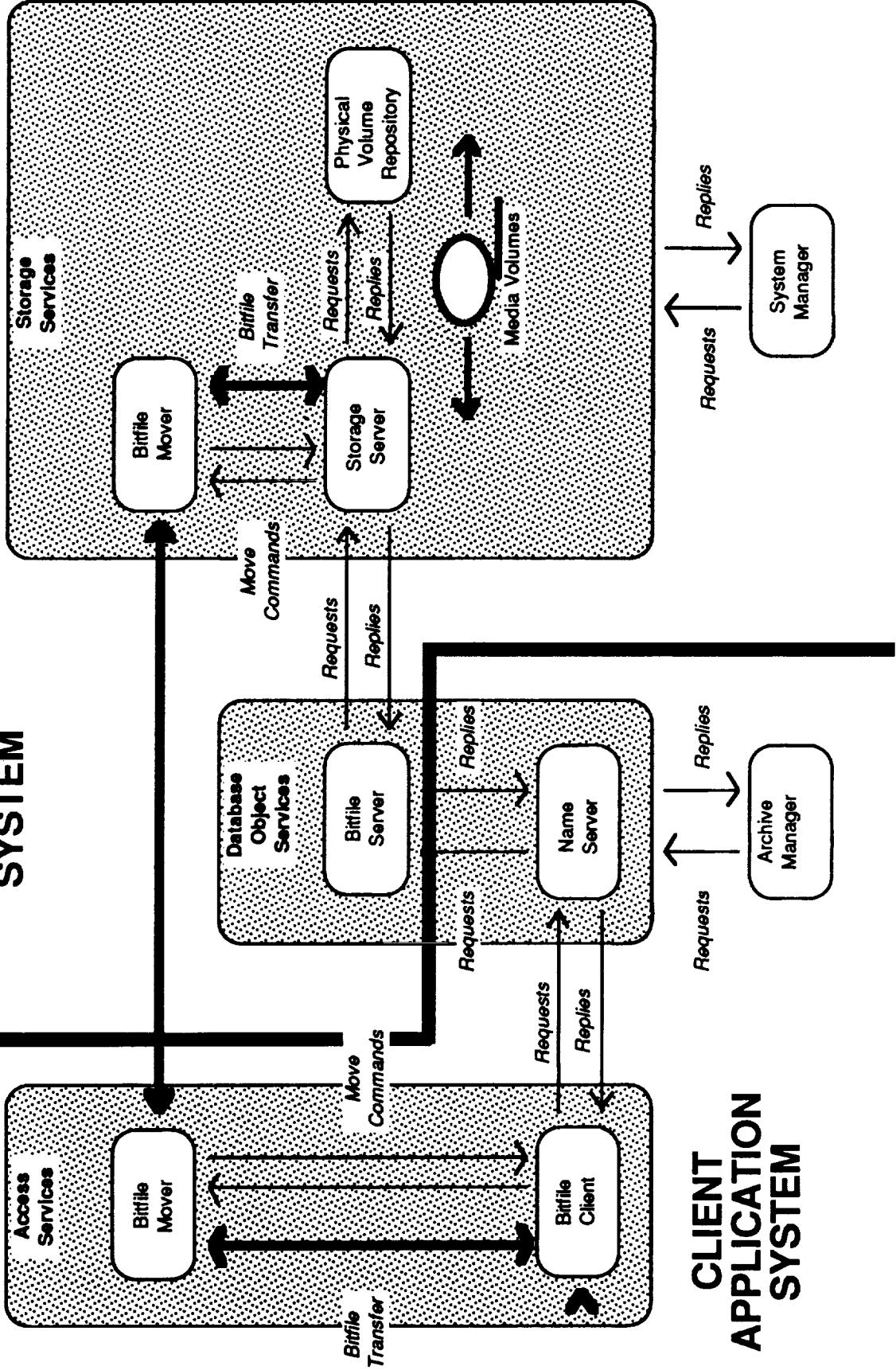
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Data Library System

- **Network Access Servers**
 - **FTP or User Access**
 - **Unix File System appearance**
 - **Gateway to DLS**
- **Archival Object Data Base (AODB)**
 - **Powerful Facilities**
 - **Object Orientation**
- **Storage Servers**
 - **Uniquely Mounted Media**
 - **Variably Mounted Media**
- **System Administration**

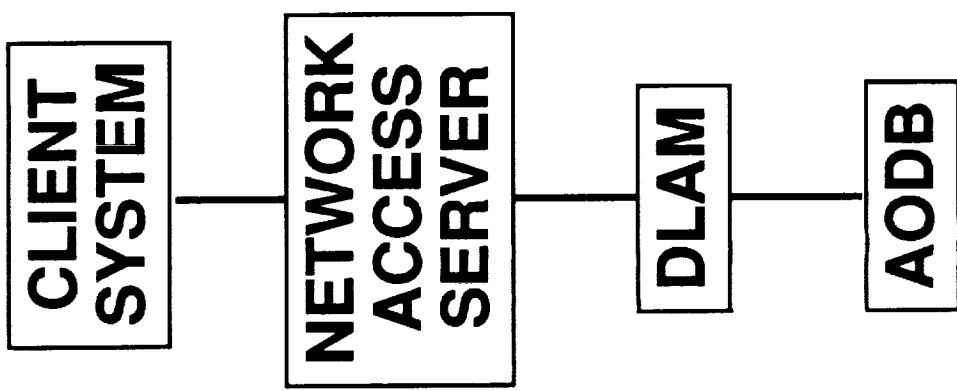
STORAGE SYSTEM



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Client Application System



Storage System

